

## KYDEX® 5115

High impact, tinted sheet for backlit panels

### INTRODUCTION

KYDEX® 5115 is a tinted PVC/PMMA that allows light to pass through for backlit applications. Its high impact strength and excellent chemical resistance makes it a perfect alternative to commonly used materials that normally break and craze from standard wear and cleaning agents.

### GENERAL INFORMATION

KYDEX® 5115 is designed for backlit panels and accents. Its self-extinguishing characteristics make it compliant to various flammability standards including Class 1/A building code requirements and UL94 V-0. Standard cleaners and disinfectants will not affect KYDEX® 5115, making it an excellent alternative to materials that tend to crack and craze.

### SUGGESTED APPLICATIONS

- Backlit panels
- Store Fixtures
- Medical Devices
- Kiosks
- Accents

### FEATURES

- Excellent fabrication and formability characteristics
- High impact strength and durability
- Excellent chemical resistance
- Contact your SPI sales representative for availability of colours and thicknesses

### ENVIRONMENTAL & SAFETY CONSIDERATIONS

SEKISUI KYDEX, LLC is committed to ensuring that its products can be manufactured, transported, stored, used, disposed and recycled with an appropriate regard for safety, health and environmental protection. We support the safe handling of our products. Please contact our Technical Service department at 800.682.8758 for resources or visit our website: <http://www.kydex.com>. For Material Safety Data Sheets, please call 800.325.3133.



#### Customer Collaboration

6685 Low St, Bloomsburg, PA 17815 USA

Phone: 800.325.3133, +1.570.389.5810

Email: [info@kydex.com](mailto:info@kydex.com)

#### appLab™

Phone: 800.682.8758

Email: [applab@kydex.com](mailto:applab@kydex.com)

[kydex.com](http://kydex.com)

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PROPERTY	TEST METHOD	TYPICAL VALUE <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.35	
Rockwell Hardness, R-scale	ASTM D785	110	
Moisture Absorption, 24 hrs. @ 50°C	ASTM D570	0.04%	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	53 MPa	7,690 psi
Tensile Modulus	ASTM D638	2,668 MPa	387,000 psi
Poisson's Ratio	ASTM D638	0.414	
Flexural Strength	ASTM D790	75.8 MPa	11,000 psi
Flexural Modulus	ASTM D790	2,710 MPa	393,000 psi
Izod Impact, notched	ASTM D256	720 J/m	13.5 ft-lb <sub>f</sub> /in
Compressive Strength, yield	ASTM D695	59.8 MPa	8,680 psi
Compressive Modulus	ASTM D695	2,675 MPa	388,000 psi
Shear Strength	ASTM D732	60.3 MPa	8,740 psi
Bearing Strength, 4% deflection	ASTM D953	23.5 MPa	3,410 psi
Bearing Strength, Max	ASTM D953	224.7 MPa	32,600 psi
Gardner Drop Dart Impact, GE	ASTM D5420	68.6 J	607 in-lb <sub>f</sub>
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D648	71.6°C	160.9°F
Coefficient of Thermal Expansion	ASTM E831	68.7 µm/m/°C	38.2 µin/in/°F
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	17.7 kV/mm	450 V/mil
<b>FLAMMABILITY</b>			
Underwriters Laboratories, Inc.® Component Recognition	UL Standard 94 <sup>2</sup>	V-0, 5V <sup>3</sup>	
Vertical Burn, 60-second	FAR 25.853(a)(i)	Pass	
Vertical Burn, 12-second	FAR 25.853(a)(ii)	Pass	
Steiner Tunnel (Flame Spread/Smoke) <sup>4</sup>	ASTM E84	Class 1/A	
<sup>1</sup> Values based upon 3.18mm (0.125") sheet unless otherwise specified. <sup>2</sup> Underwriters Laboratories, Inc.®, File Number E115252 <sup>3</sup> All thicknesses 0.71mm (0.028") and above <sup>4</sup> Tested at 0.060" (1.5mm). Valid for thickness up to 0.060" (1.5mm) Not intended for specification purposes.			



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 Email: info@kydex.com

**applab™**  
 Phone: 800.682.8758  
 Email: applab@kydex.com

kydex.com

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